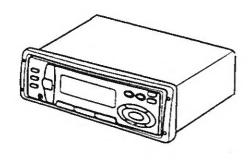
aıwa



CT-FR728M CT-FR928M CT-FX728M CT-FR718 CT-FX718



STEREO CAR CASSETTE RECEIVER

BASIC TAPE MECHANISM: CDS522A

YZ (FR728M,928M,FR718,FX718, FX728M) YVJ (FX718)YJ(FX728M)

改定版

REVISION PUBLISHING

このサービスマニュアルはシンプル版 (S/M Code No. 09-985-274-80I) (S/M Code No. 09-985-279-001) の改定版です。差し替えて使用してください。

This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-985-274-80I)(S/M Code No. 09-985-279-00I)...

SPECIFICATIONS

RADIO SECTION

(FM) <FR728M, FR928M, FR718>

Frequency Range:

87.5 MHz - 108 MHz

(25-kHz/50-kHz steps)

Usable Sensitivity: 12.7 dBf 50 dB Ouieting Sensitivity: 17.2 dBf

IF Rejection:

80 dB

Frequency response:

30 Hz - 15,000 Hz

S/N Ratio:

63 dB

Stereo Separation:

35 dB at 1 kHz

Alternate Channel Sensitivity:

70 dB

Capture Ratio:

3 dB

(FM) <FX718, FX728M>

Frequency Range:

<YZ>

87.5 MHz - 108 MHz (25-kHz/50-kHz steps)

87.5 MHz - 108 MHz (100-kHz steps)

<YVJ> 87.5 MHz - 108 MHz

(50-kHz steps) 65 MHz - 74 MHz (10-kHz/50-kHz steps)

<YJ> 87.5 MHz - 108 MHz

(50-kHz steps) 87.5 MHz - 108 MHz (100-kHz steps)

Usable Sensitivity: 12.7 dBf 50 dB Ouleting Sensitivity: 17.2 dBf IF Rejection: 80 dB

Frequency Response: 30 Hz - 15,000 Hz

S/N Ratio:

63 dB

Stereo Separation: 35 dB at 1 kHz

Alternate Channel Sensitivity:

70 dB 3 dB

Capture Ratio:

(MW)

Frequency Range:

531 kHz - 1,602 kHz

(9-kHz steps)

Usable Sensitivity:

30 μV (30dB)

(LW)

Frequency Range:

144 kHz - 288 kHz

(1-kHz/9-kHz steps)

Usable Sensitivity:

30 μV (30dB)

TAPE SECTION

Wow/Flutter: 0.1% (WRMS)

Tape Speed: 4.8 cm/sec. (1⁷/8 ips)

S/N Ratio (normal): 50 dB S/N Ratio (metal) <FR928M, FX728M>:

> Dolby NR off 54 dB Dolby NR on 64 dB

Frequency Response: 40 Hz - 14,000 Hz (normal)

40 Hz - 16,000 Hz (metal)

<FR928M, FX728M>

Stereo Separation: 40 dB

FF/REW Time: 95 sec. (C-60)

AUDIO SECTION

Max. Power Output: 40 W X 4 channels

CD IN input

Input sensitivity (load impedance)

CD IN:

500 mV (10 kΩ)

GENERAL

Power-supply Voltage: 14.4V (11 to 16 V allowable),

DC, negative ground

Load impedance:

Tone control: Bass ±10 dB at 100 Hz

Treble ±10 dB at 10 kHz

Preamp Output Voltage (load impedance):

2.2 V (10 kΩ)

Installation size: 182 (W) \times 53 (H) \times 155 (D) mm

 $(7^{1}/4 \text{ (W)} \times 2^{1}/8 \text{ (H)} \times 6^{1}/8 \text{ (D) inches)}$

Design and specifications are subject to change without notice.

 Dolby noise reduction manufactured under ficense from Dolby Laboratories Licensing Corporation.

 "DOLBY", and the double-D symbol DI are trademarks of Dolby Laboratories Licensing Corporation.

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO | PART NO. | KANRI DESCRIPTION NO. | REF. NO | PART NO. | KANRI DESCRIPTION NO. |
|---------|----------------|--------------------------------------------------------------------|---------|----------------|---------------------------------------------------------------------|
| 1 | S8-KT1-910-200 | INSTRUCTION BOOK (INST, YZ-EGFSI | 2 | S8-KT4-910-400 | INSTRUCTION BOOK (YV, ER) < X71YV> |
| | | <r92,r72,r71></r92,r72,r71> | 2 | S8-KT4-910-600 | INSTRUCTION BOOK (Y, ESCA) < X72YJ> |
| 1 | S8-KT4-910-200 | <pre>INSTRUCTION BOOK(INST, YZ) <x71yz, x72yz=""></x71yz,></pre> | 3 | S8-KT1-910-300 | <pre>INSTRUCTION BOOK(YZ,CZ-PO-H) <r92,r72,r71></r92,r72,r71></pre> |
| 1 | S8-KT4-910-500 | <pre>INSTRUCTION BOOK(INST, YV, ER) <x71yv></x71yv></pre> | 3 | S8-KT4-910-100 | INSTRUCTION BOOK(YZ)< X71YZ, X72YZ> |
| 1 | S8-KT4-910-700 | INSTRUCTION BOOK (INST, Y, ESCA) | 4 | S6-KY1-910-100 | INSTRUCTION BOOK(Y-EGFSICA) <r92></r92> |
| | | <x72yj></x72yj> | 5 | S0-081-202-000 | CORD, REMOTE LINE 2000MM(BLK) < R92> |
| 2 | S8-KT1-910-100 | INSTRUCTION BOOK (YZ, EGFSID) | 6 | S7-KTE-480-000 | MOUNTING BKT |
| | | <r92,r72,r71></r92,r72,r71> | 7 | S0-000-500-000 | NUT, 5M <except r71="" r72,=""></except> |
| | | | 8 | S2-050-654-091 | NUT, 5M <r72, r71=""></r72,> |
| 2 | S8-KT4-910-300 | INSTRUCTION BOOK (INST, YZ) | | | |
| | | <x71yz,x72yz></x71yz,x72yz> | 9 | S1-205-001-520 | SCREW, ST5-15 |

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO | PART NO. | KANRI NO. | DESCRIPTION | REF. NO | PART NO. | KANI NO. | | DESCRIPTION |
|--------------|---------------------------------|--------------|------------------------------------------------------------------------------------------------------------|-----------------|------------------------------|-------------|---------------------------------------------------------------------------|----------------------------------------------------------------------|
| C.C | | | | C357 | 87-010-264-0 | | CAP, E 1 | 100-10V R71,X71YZ,X71YV> |
| | S9-265-790-00 S3-350-994-D8 | | SAA6579T <r92,r72,r71> PST994D-2</r92,r72,r71> | C358 | 87-010-264-0 | 40 | CAP, E 1 <r72,< td=""><td>L00-10V R71,X71YZ,X71YV></td></r72,<> | L00-10V R71,X71YZ,X71YV> |
| | 88-KT1-604-01 87-A20-233-01 | | TA7291P HA12192F <r92,x72yz,x72yj></r92,x72yz,x72yj> | C361 | 87-010-264-0 | 40 | CAP, E 1 | |
| | SI-CKI-A62-25 | | KIA6225S <r72,r71,x71yz,x71yv></r72,r71,x71yz,x71yv> | C401 C402 | 87-010-401-0 87-010-401-0 | | CAP, E 1 | |
| | 63 135 330 00 | | | C403 | 87-010-401-0 | 10 | CAP, E 1 | L-50V |
| | S7-175-370-00 S3-613-150-1A | | LC75373E HA13158 | C404 | 87-010-401-0 | 10 | CAP, E 1 | L-50V |
| | 87-A20-888-01 \$4-000-090-00 | | UPD17709GC-517-3B9 BA09T | C405 C406 | 87-010-401-0 87-010-401-0 | | CAP, E 1 | |
| | \$7-175-850-00 | O IC, | LC75854W | C407 | 87-010-401-0 | 10 | CAP, E 1 | L-50V |
| | · P | | | C408 C409 | 87-010-401-0 87-010-401-0 | | CAP, E 1 | |
| ANSISTO | | | | C410 | 87-010-401-0 | 10 | CAP,E 1 | L-50V |
| | 89-324-122-08 89-110-372-08 | | R,2SC2412KR R,2SA1037AK | C411 C412 | 87-010-075-0 87-010-075-0 | | CAP, E 1 | |
| | ST-RC3-63T-KL | 0 C-T | R, DTC363TK | C417 | 87-010-075-0 | 40 | CAP, E 1 | LO-16V |
| | S3-1KT-A16-58 S3-147-320-32 | | KTA1658Y KTC 3203Y | C418 | 87-010-075-0 | 40 | CAP,E 1 | 10-16V |
| | S3-1KT-C43-69 | Y TR, | KTC4369Y | C419 C420 | 87-010-677-0 87-010-677-0 | | |).15-50V).15-50V |
| | 87-026-210-01 87-026-239-08 | | DTC144EK DTC114TK | C421 | 87-010-677-0 87-010-677-0 | 40 | CAP, E |).15-50V |
| | SD-TB1-23Y-K0 | 0 C-T | R,DTB123YKA | C422 C423 | 87-010-075-0 | | CAP, E 1 | 0.15-50V LO-16V |
| | 87-026-233-08 | 0 C-1 | R,DTA114TKA | C424 | 87-010-075-0 | | CAP,E 1 | |
| ODE | | | | C425 C426 | 87-010-075-0 87-010-075-0 | | CAP, E 1 | |
| | 87-020-465-01 | 0 0.70 | DE,1SS133 | C427 | 87-010-075-0 | 40 | CAP, E 1 | 10-16V |
| | 87-070-333-08 | 0 ZEN | ER,5.1V | C428 | 87-010-075-0 | | CAP,E 1 | |
| | 87-070-334-08 S9-7U0-6R2-1B | | ER,10V ER,6.2V | C429 C430 | 87-010-264-0 87-010-244-0 | | CAP, E 1 | |
| | 87-A40-003-08 | 0 ZEN | ER,4.3V | C505 | 87-010-401-0 | 10 | CAP, E 1 | L-50V <r92></r92> |
| | 87-001-783-08 | | DE, IN-4002 | C506 C507 | 87-010-401-0 87-010-401-0 | | CAP, E 1 | L-50V <r92> L-50V</r92> |
| | S3-9Z1-7V0-00 S0-100-680-01 | | ER,9.1V ER,6.8V MTZJ6.8B | C508 | 87-010-401-0 | 10 | CAP,E 1 | L-50V |
| | | | | C551 C601 | 87-010-234-0 87-010-401-0 | | CAP, E 4 | |
| IN C.B | | | | C602 | 87-010-401-0 | 10 | CAP, E 1 | L-50V |
| 103 | 87-010-264-04 | 0 CAF | ,E 100-10V | C603 | 87-010-401-0 | 10 | CAP,E 1 | 1-500 |
| :107 :107 | 87-010-401-01 87-015-696-08 | | ,E 1-50V <except x72yj=""></except> | C604 C610 | 87-010-401-0 87-010-377-0 | | CAP, E 1 | L-50V 3300-16V |
| 2108 | 87-010-234-07 | 0 CAP | E 47-16V | C611 | 87-010-866-0 | 10 | CAP, E 1 | LO-63V |
| 2109 | 87-010-264-04 | | ,E 100-10V | C612 C712 | 87-010-497-0 87-010-497-0 | | CAP, E 4 | 1.7-35V |
| 113 | 87-010-401-01 87-010-401-01 | | F,E 1-50V F,E 1-50V | C801 | 87-010-401-0 | 10 | CAP,E 1 | L-50V |
| 2115 | 87-010-479-08 87-010-234-07 | 0 CAP | E 0.1-50V E 47-16V | D801 | S0-012-400-0 | | | MP 3MM(RED) |
| 2151 | 87-010-264-04 | | F,E 100-10V <r92,r72,r71></r92,r72,r71> | J101 J501 | S1-180-400-0 S0-209-000-0 | 00 | JACK, PI | IN 2P <except r92=""></except> |
| 155 | 87-015-696-08 | 0 CAF | ,E 2.2-50V <r92,r72,r71></r92,r72,r71> | J501 | S0-209-100-0 | 00 | JACK, RO | CA 4P <r92></r92> |
| 201 | 87-010-101-04 87-010-244-04 | - | ,E 220-16V ,E 22-16V | J551 J701 | S0-051-160-0 S0-016-370-0 | | | DIN <r92,r72,x72yz,x72 SJ1637(REMOTE CONT)</r92,r72,x72yz,x72 |
| 2203 | 87-010-264-04 | 0 CAP | ,E 100-10V | L101 | SL-C4R-7J0-9 | 00 | INDUCTO | OR 4.7UH |
| 205 | 87-010-782-01 | | E 47000-5.5V | L151 L201 | 87-005-688-0 87-003-149-0 | | | OR 22UH <r92,r72,r71> CON,47UH</r92,r72,r71> |
| 2209 2210 | 87-010-234-07 87-010-221-01 | | ,E 47-16V ,E 470-10V | SFR101 | S1-040-650 - 0 | 00 | SFR.100 |)K <r92.r72.r71></r92.r72.r71> |
| C252 C254 | 87-010-379-04 87-010-234-07 | 0 CAF | ,E 22-16V ,E 47-16V | SFR301 | \$1-030-850-0 | 10 | | (<r92, x72yj="" x72yz,=""></r92,> |
| 255 | 87-010-234-07 | | ,E 4.7-35V | SFR302 SW702 | S1-030-850-0 SK-HH9-130-0 | | SW, TACT | K <r92,x72yz,x72yj> F SKHHLQ</r92,x72yz,x72yj> |
| 305 | 87-010-070-04 | | ,E 0.47-50V <r92,x72yz,x72yj></r92,x72yz,x72yj> | SW751 | S1-220-211-0 | 00 | | R72,X72YZ,X72YJ> DE <except r92,r72,r71=""></except> |
| 305 | 87-010-401-01 87-010-401-01 | | P.E 1-50V <r72,r71,x71yz,x71yv> P.E 1-50V<r72,r71,x71yz,x71yv></r72,r71,x71yz,x71yv></r72,r71,x71yz,x71yv> | TUN101 | S2-003-400-0 | 10 | JACK TI | JNER <x71yv></x71yv> |
| 306 | 87-010-070-04 | 0 CAP | E 0.47-50V <r92,x72yz,x72yj></r92,x72yz,x72yj> | TUN101 | S2-003-400-0 | 20 | TUNER F | PACK AM/FM <except td="" x71<=""></except> |
| 310 | 87-010-401-01 | | ,E 1-50V <r92,x72yz,x72yj></r92,x72yz,x72yj> | X151 X701 | S6-043-320-0 S6-045-001-0 | | | 1.332 MHZ <r92,r72,r71> 1.500MHZ</r92,r72,r71> |
| 312 | 87-010-069-08 87-010-264-04 | | P,E 0.33-50V <r92,x72yz,x72yj> P,E 100-10V<r92,x72yz,x72yj></r92,x72yz,x72yj></r92,x72yz,x72yj> | | | | | |
| 314 | 87-010-401-01 87-010-075-04 | 0 CAF | r,E 1-50V <r92,x72yz,x72yj></r92,x72yz,x72yj> | FRONT C.E | 3 | | | |
| :353 :354 | 87-010-075-04 | | P,E 10-16V <r72,r71,x71yz,x71yv></r72,r71,x71yz,x71yv> | C901 | 87-010-244-0 | | CAP, E 2 | |
| | | | | LCD901 PL901 | S0-08K-T10-0 S1-090-500-0 | | LCD, COI | LOR DISPLAY |

| REF. NO | PART NO. | KANRI DESCRIPTION NO. |
|---------|------------------------|-----------------------------------|
| PL901 | S0-688-660-05 | COVER, LAMP |
| PL902 | S1-090-500-05 | |
| PL902 | S0-688-660-02 | COVER, LAMP 3.0-7.0 <r92></r92> |
| PL903 | S1-090-500-05 | |
| PL903 | S0-688-660-05 | |
| PL904 | S1-090-500-05 | |
| PL904 | S0-688-660-02 | |
| PL905 | S1-090-500-05 | |
| PL905 | \$0-688-660-05 | |
| PL906 | S1-090-500 - 05 | 0 BULB 9V <r92></r92> |
| PL906 | S0-688-660-02 | |
| PL907 | \$1-090-500-05 | |
| PL907 | S0-688-660-05 | |
| PL908 | S1-090-500-05 | |
| PL908 | S0-688-660-02 | O COVER, LAMP 3.0-7.0 <r92></r92> |
| PL909 | S1-090-500-05 | 0 BULB 9V |
| PL909 | 50-688-660-05 | COVER, LAMP |
| PL910 | S1-090-500-05 | |
| PL910 | \$0-688-660-02 | |
| PL911 | S1-090-500-05 | 0 BULB 9V |
| PL911 | S0-688-660-05 | O COVER, LAMP |
| PL912 | \$1-090-500-05 | |
| PL912 | S0-688-660-02 | |
| PL913 | \$1-090-500-05 | |
| PL913 | S0-688-660-06 | O COVER LAMP |
| PL914 | S1-090-500-05 | 0 BULB 9V |
| PL914 | S0-688-660-06 | |
| PL915 | S1-090-500-05 | |
| PL915 | S0-688-660-06 | |
| SW901 | SD-LT1-100-01 | 0 SW, TACT 2P 5MM |
| SW902 | SD-LT1-100-01 | |
| SW903 | SD-LT1-100-01 | |
| SW904 | SD-LT1-100-01 | |
| SW905 | SD-LT1-100-01 | |
| SW906 | SD-LT1-100-01 | 0 SW, TACT 2P 5MM |
| SW907 | SD-LT1-100-01 | O SW, TACT 2P 5MM |
| SW908 | SD-LT1-100-01 | |
| SW909 | SD-LT1-100-01 | |
| SW910 | SD-LT1-100-01 | |
| SW911 | SD-LT1-100-01 | O SW, TACT 2P 5MM |

| | | 140 | • | |
|----------------------------------------------------------------------------|-------------------------------|----------------------------------------------|----------------------------------------------------------|-------------------|
| SW913 SW914 SW915 | SD-LT1- SD-LT1- SD-LT1- | -100-010 -100-010 -100-010 -100-010 | SW, TACT 2P SW, TACT 2P SW, TACT 2P SW, TACT 2P | 5MM 5MM 5MM |
| SW916 SW917 | | | SW, TACT 2P | |
| SW918 SW919 SW920 | SD-LT1 SD-LT1 SD-LT1 | -100-010 | SW, TACT 2P SW, TACT 2P SW, TACT 2P SW, TACT 2P | 5MM 5MM 5MM |
| SW922 | S2-210- | -211-000 | SW, SLIDE 21 | P2T <r92></r92> |
| JACK C.B | | | | |
| Ј901 | SO-000- | -320-000 | JACK, AUX 3 | .5MM |
| SUB C.B | | | | |
| | | | BULB 9V SW,TACT 2P | 5MM |
| RELAY C.B | | | | |
| HEAD C.B | | | | |
| REEL C.B | | | | |
| NOTE: | | | | |
| Introduc | tomi | | | 1 |
| Remarks | | | Name | |
| <r92:< td=""><td>></td><td>CT-FR9</td><td>28M(YZ)</td><td></td></r92:<> | > | CT-FR9 | 28M(YZ) | |
| <r72:< td=""><td>></td><td>CT-FR7</td><td>28M(YZ)</td><td></td></r72:<> | > | CT-FR7 | 28M(YZ) | |
| <r71:< td=""><td>></td><td>CT-FR7</td><td>18(YZ)</td><td></td></r71:<> | > | CT-FR7 | 18(YZ) | |
| <x71< td=""><td>YZ></td><td>CT-FX7</td><td>18(YZ)</td><td></td></x71<> | YZ> | CT-FX7 | 18(YZ) | |
| <x71< td=""><td>YV></td><td>CT-FX7</td><td>18(YVJ)</td><td></td></x71<> | YV> | CT-FX7 | 18(YVJ) | |
| | | | | |

<X72YZ>

<X72YJ>

CT-FX728M(YZ)

CT-FX728M(YJ)

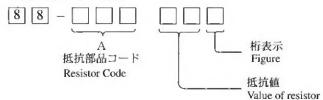
REF. NO

PART NO. KANRI

DESCRIPTION

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

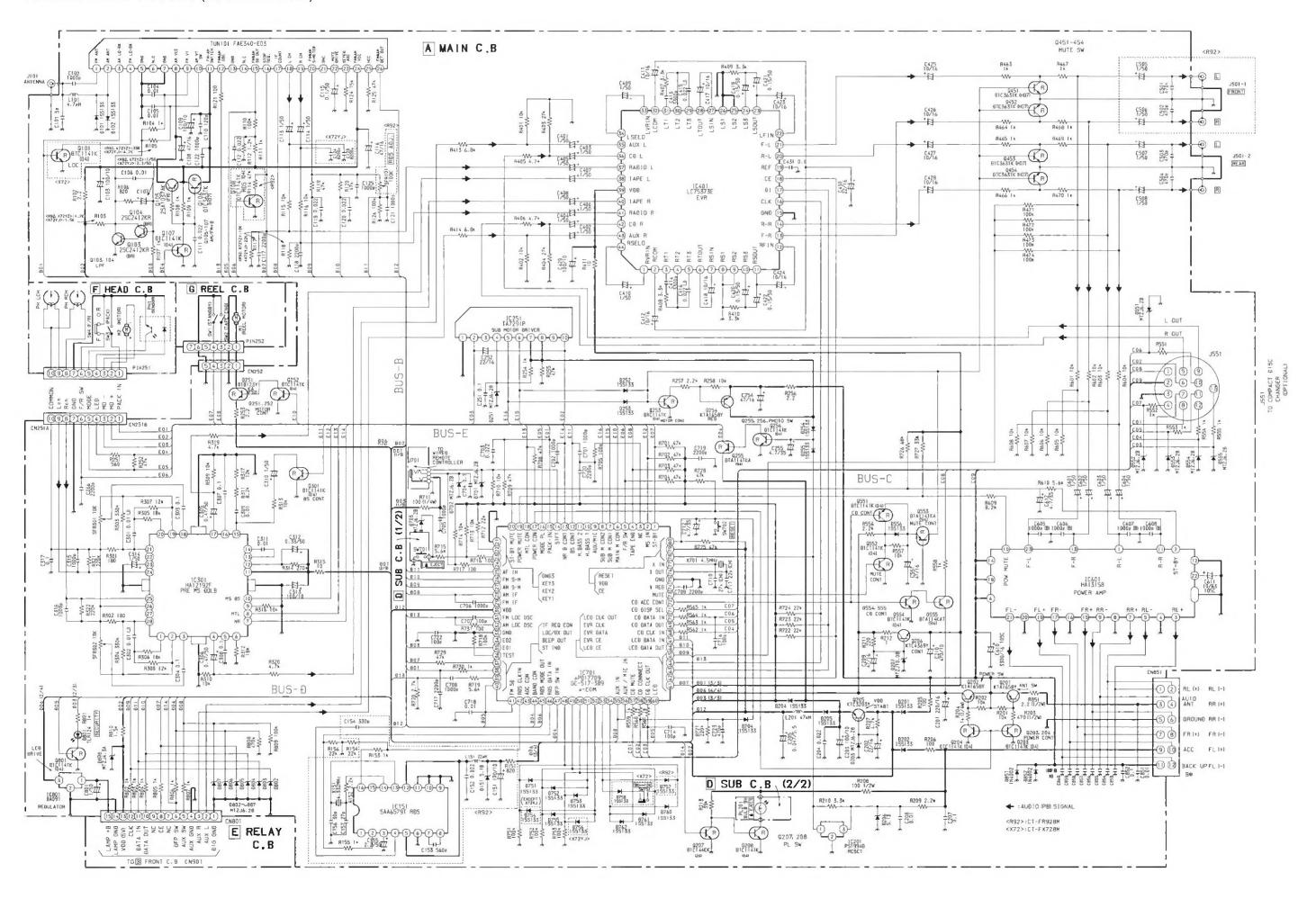
チップ抵抗部品コードの成り立ち Chip Resistor Part Coding

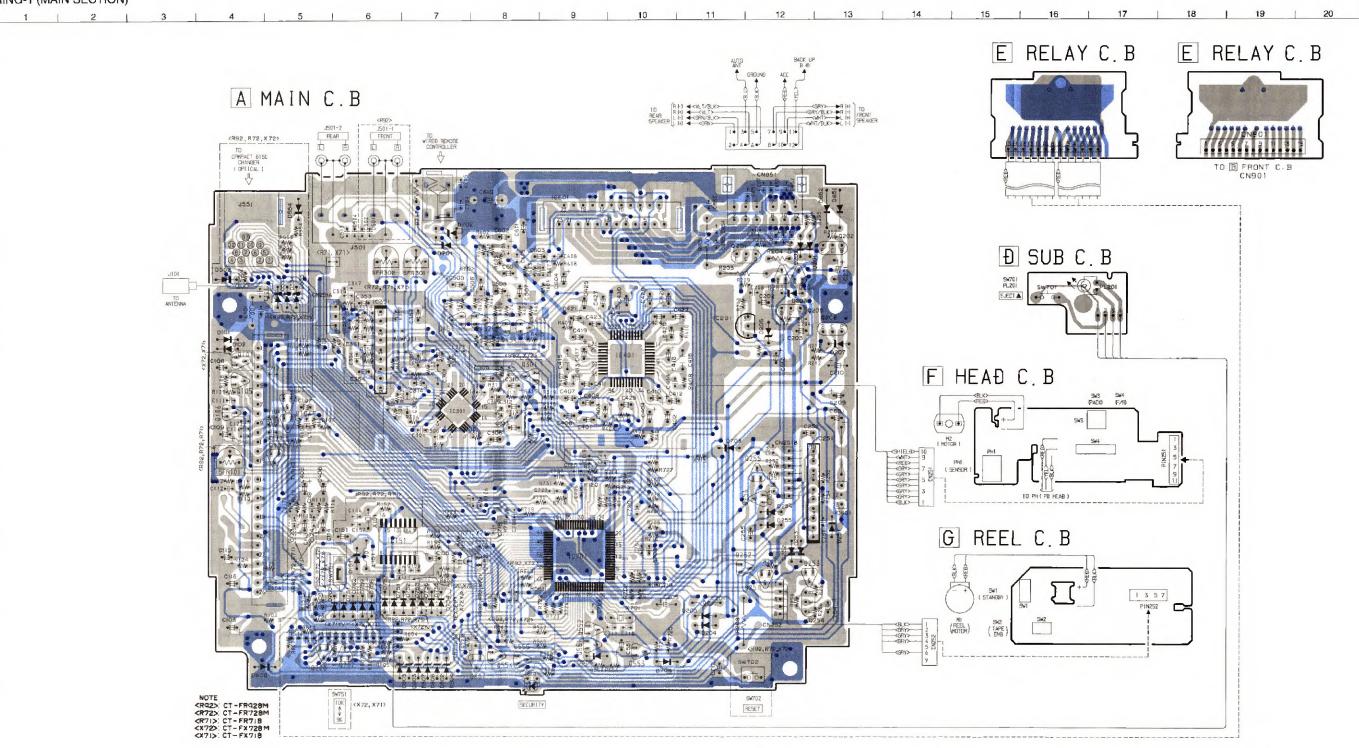


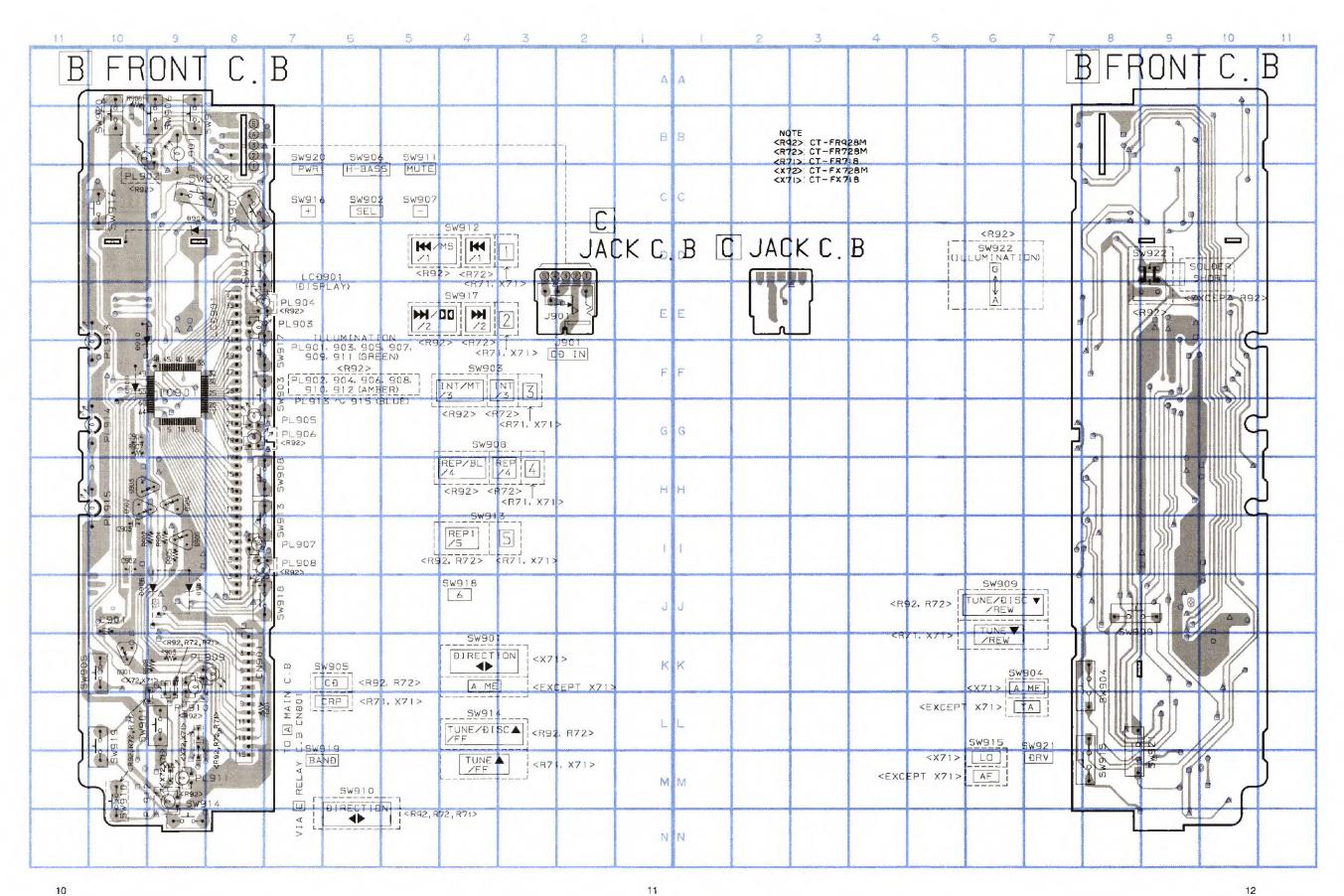
チップ抵抗

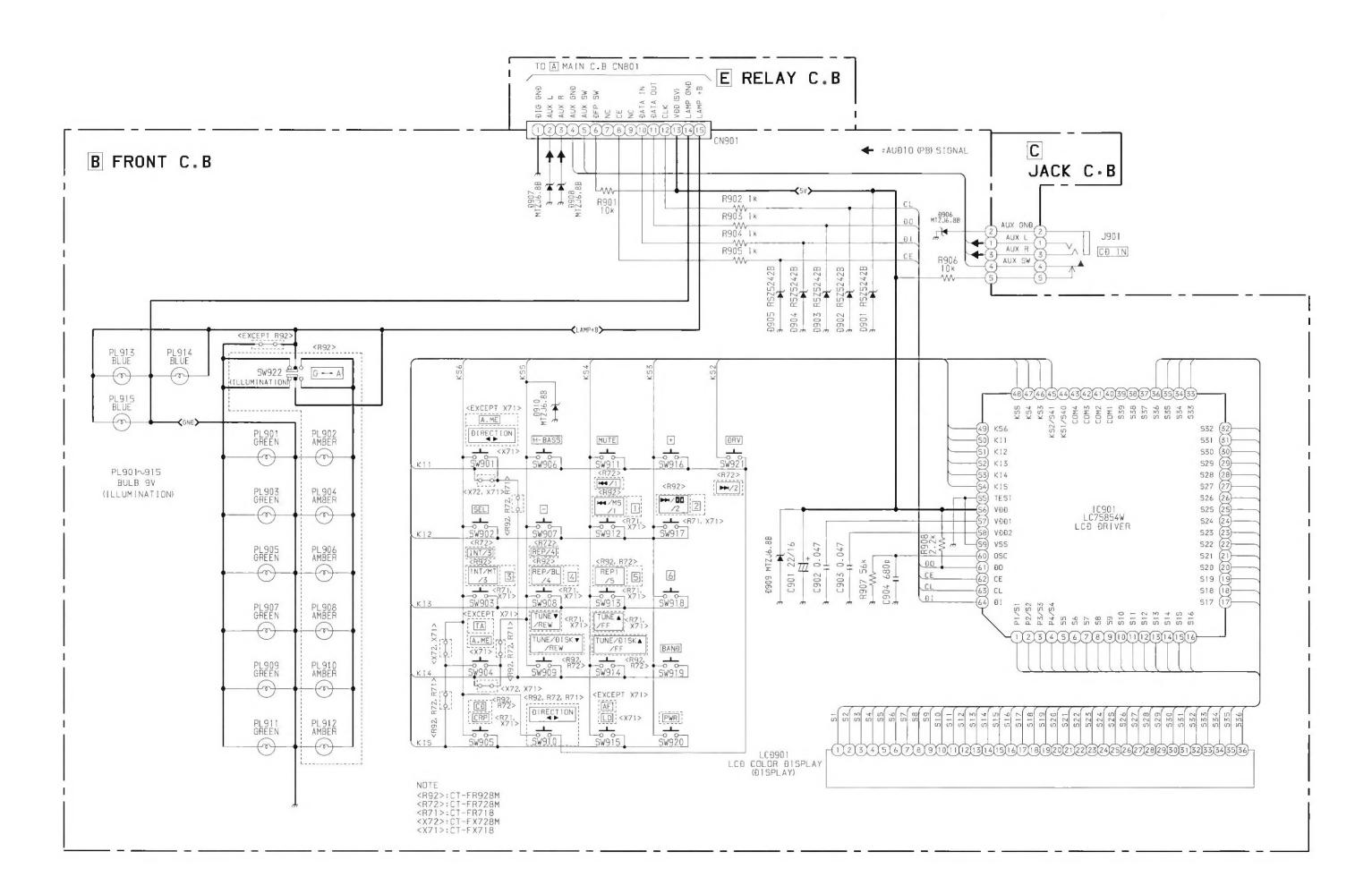
Chip resistor

| 容量 | 容量 種類 許容誤差 記号 寸法/1 | | | | nsions (| mm) | 抵抗コード : A | |
|---------|--------------------|-----------|--------|-----------|----------|------|-----------|-------------------|
| Wattage | Type | Tolerance | Symbol | 外形 / Form | L | W | t | Resistor Code : A |
| 1/16W | 1608 | 5% | CJ | <u> </u> | 1.6 | 0.8 | 0.45 | 108 |
| 1/10W | 2125 | 5% | CJ | TT | 2 | 1.25 | 0.45 | 118 |
| 1/8W | 3216 | 5% | CJ | W | 3.2 | 1.6 | 0.55 | 128 |

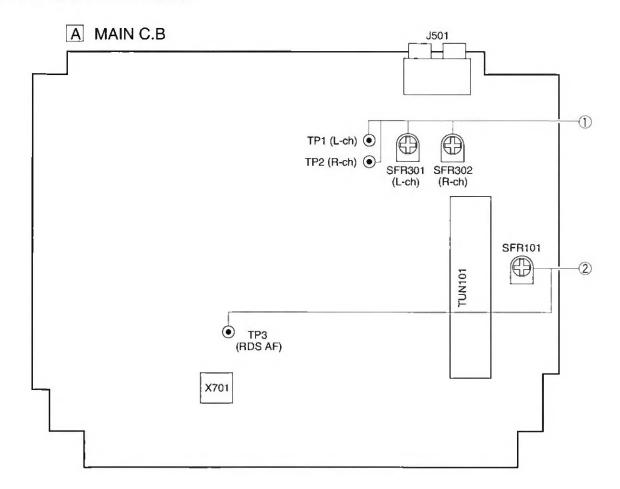








ELECTRICAL ADJUSTMENT



1. Dolby NR Adjustment

Settings: • Test tape: TTA-200

• Test point: TP1 (Lch)

TP2 (Rch)

• Adjustment location: SFR301 (Lch) SFR302 (Rch)

Method: 1) Play a Dolby NR tape and adjust SFR301 and SFR302 so the Lch (TP1) and Rch (TP2) levels are 300 mV \pm 1.0 dB.

- 2 Adjust the level in the forward running direction, and then check in the reverse direction. If the level drifts from the specification, perform readjustment.
- 2. AF start level Adjustment (FR728, FR928, FR718 only) Settings: • Test point: TP3 (RDS AF)

· Adjustment location: SFR101

Method: 1) The reception frequency are adjusted to 98 MHz (45 kHz DEV, 1 kHz MOD)

- ② ANT input signal stregth is set in 32 dBµV. SFR101 is adjusted so that the barminal AF1N may became 1.70 V \pm 0.05V.
- 3 It is confirmed that the AF start level is 32 \pm 4dBµV or less.

* Method of confirming AF start level

The AF display of the LCD display machine is lit and SEEK is done. The RDS signal which the AF list enters is received. The level by which SEEK STOP is started is measured.

- * Method of confirming AF operation
 - 1) AF and the TP display are lit pushing key.
 - 2 98 MHz is received.
 - ③ If PS is displayed, preset station button is pushed for two seconds or more.
 - 4 SSG is adjusted to 97 MHz.
 - (5) And, preset station button <0.5 sec or less> pushes
 - 6 It is Confirmed to receive 97 MHz

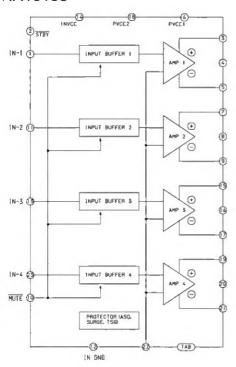
IC DESCRIPTION-1 IC, LC75373E

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | RVRIN | 1 | 4dB VR input. Must be driven with low impedance. |
| 2 | RCOM | | IdB VR common pin |
| 3~5 | RTI~RT3 | _ | For the connection of capacitors that compensate for bass and treble in the tone control circuits. A high-frequency compensation capacitor must be connected between T1 and T2. A low-frequency compensation capacitor must be connected between T2 and T3. |
| 6 | RTOUT | 0 | Tone control output |
| 7 | RS IN | I | Super bass input. Must be driven with low impedance. |
| 8~10 | RS1~RS3 | | For the connection of super bass compensation capacitors |
| 11 | RS OUT | 0 | Super bass output |
| 12 | FR IN | I | Fader input. Must be driven with low impedance. |
| 13 | FR | 0 | |
| 14 | RR | 0 | Fader outputs. The front and rear sides can be faded independently. |
| 15 | VSS | _ | Ground |
| 16 | CL | I | |
| 17 | DI | I | Serial data and clock inputs for control |
| 18 | CE | - | Chip enable. Data is written to the internal latch when the chip enable signal goes "L" from "H", and each analog switch is activated. Data transfer is enabled at "H". |
| 19 | Vref | - | Generates a 1/2VDD power source. A capacitor must be connected between Vref and VSS as a troubleshooting against power ripples. |
| 20 | RL | 0 | |
| 21 | FL | 0 | Fader outputs. The front and rear sides can be faded independently. |
| 22 | FLIN | 1 | Fader input. Must be driven with low impedance. |
| 23 | LSOUT | 0 | Super bass output |
| 24~26 | LS3~LS1 | - | For the connection of super bass compensation capacitors |
| 27 | LS IN | 1 | Super bass input. Must be driven with low impedance. |
| 28 | LT OUT | 0 | Tone control output |
| 29~31 | LT3~LT1 | _ | For the connection of capacitors that comensate for bass and treble in the tone control circuit. A high-frequency compensation capacitor must be connected between T1 and T2. A low-frequency compensation capacitor must be connected between T2 and T3. |
| 32 | LCOM | | 1dB VR common pin |
| 33 | LVRIN | 1 | 4dB VR input. Must be driven with low impedance. |
| 34 | LSELO | 0 | Input selector output |
| 35 | L1 | I | |
| 36 | AUX/L | 1 | Signal inputs |
| 37 | TP/L | I | |
| 38 | TU/L | I | |
| 39 | VDD | | Power supply |
| 40 | TU/R | I | |
| 41 | TP/R | I | Signal inputs |
| 42 | AUX/R | 1 | |

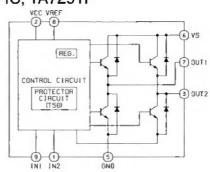
| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|------------------------|
| 43 | R4 | 1 | Signal input |
| 44 | RSELO | 0 | Input selector outputs |

IC BLOCK DIAGRAMS

IC, HA13158



IC, TA7291P

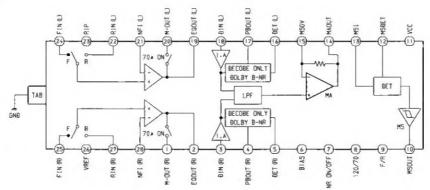


TRUTH TABLE

| [Ni | TU | 003 | PUI | MORE | |
|------|-----|----------|----------|--------|--|
| INI | 1N2 | OUT1 | OUT 2 | เนกกร | |
| 0 | 0 | ∞ | ∞ | STOP | |
| - 1 | 0 | H | L | CMNCCM | |
| 0 | 1 | Ĺ | Н | CCW/CW | |
| | | L | Ł | BRAKE | |

CO :HIGH IMPEDACE INPUT IS THE ACTIVE

IC, HA12192F



TRANSISTOR ILLUSTRATION



E C B KTC3203



E C B
DTA114TKA
DTB123YKA
DTC114TK
DTC144EK
DTC363TK



B C E KTA1658 KTC4369



2SA1037 2SC2412

IC DESCRIPTION-2

IC, μPD17709GC-517-3B9

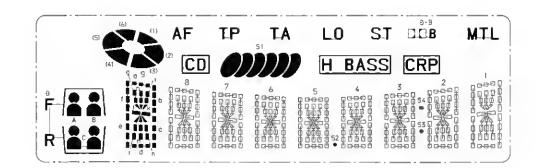
| Pin No. | Pin Name | I/O | Description | | |
|---------|------------------|-----|--------------------------------------------------------------------------------------------------|--|--|
| I | ST-BY | I | Tape mechanism standby input | | |
| 2 | MS IN | I | MS signal input (H: Track absent, L: Track present) | | |
| 3 | NC | _ | No connection | | |
| 4 | TAPE END | I | Tape end detection input | | |
| 5 | F/R SW | I | FWD/REV mechanism position detection input | | |
| 6 | MAIN M CON | О | Main motor control output | | |
| 7 | SUB M CON1 | О | Sub-motor I control output | | |
| 8 | SUB M CON2 | 0 | Sub-motor 2 control output | | |
| 9 | AUX/MIC | О | AUX/MIC switching signal output | | |
| 10 | H. BASS 1 | O | H.BASS control output I (only display is changed) | | |
| 11 | H. BASS 2 | О | H.BASS control output 2 (only display is changed) | | |
| 12 | BS CONT | О | MS/BS switching output | | |
| 13 | NR B CONT | О | Dolby NR ON/OFF output | | |
| 14 | SIFT | I | Rotary commander shift switch input | | |
| 15 | PACK-IN | I | Tape inserted status detection input | | |
| 16 | MODE PL | I | Tape mechanism mode pulse input | | |
| 17 | POWER CONT | 0 | Unit power control output | | |
| 18 | MTL CONT | О | Metal tape ON/OFF output | | |
| 19 | POWER MUTE | 0 | Muting output to power amp | | |
| 20 | STAND BY M | 0 | Standby muting output to power amp | | |
| 21 | GND 3 | 0 | Device ground | | |
| 22 | KEY 3 | _ | (LC75854 key matrix is used simultaneously) For key matrix (2) | | |
| 23 | KEY 2 | I | (LC75854 key matrix is used simultaneously) For key matrix (1) | | |
| 24 | KEY 1 | 1 | Rotary commander input | | |
| 25 | AF IN | I | AF level input during AF operation | | |
| 26 | FM S-M | I | FM S-meter signal input | | |
| 27 | AM S-M | 1 | AM S-meter signal input | | |
| 28 | AM IF | I | AM IF count signal input | | |
| 29 | FM IF | 1 | FM IF count signal input | | |
| 30 | VDD | _ | Device power supply | | |
| 31 | FM LOC OSC | I | FM local oscillation input | | |
| 32 | AM LOC OSC | 1 | AM local oscillation input | | |
| 33 | GND | _ | Device ground | | |
| 34 | EO 2 | 0 | Charge pump output for low-pass filter | | |
| 35 | EO I | 0 | Charge pump output for low-pass filter | | |
| 36 | TEST | _ | Device test input (need to be pulled down) | | |
| 37 | IF REQ CON | 0 | IF count signal request output | | |
| 38 | LOC/DX OUT | 0 | LOC/DX switching output during radio tuning | | |
| 39 | BEEP OUT | 0 | Beep sound output (200Hz, 3kHz, 50ms) | | |
| 40 | ST IND MO/ST OUT | I/O | The input is accepted only when the display input is received (MONO=H, ST=L). In | | |
| 40 | ST IND MO/ST OUT | I/O | other modes, the ST indication is switched off. Forced monaural output when MONO key is pressed. | | |

| Pin No. | Pin Name | I/O | Description |
|---------|-------------|-----|------------------------------------------------------------------------|
| 41 | FM SD | 1 | Stop pulse input during FM seeking |
| 42 | GC CONT | 1 | RDS clock input |
| 43 | AGC CONT | 0 | Outputs "H" during radio tuning |
| 44 | BAND CONT | 0 | AM/FM power switching output |
| 45 | RDS M OUT | 0 | Outputs "H" in the RDS mode. |
| 46 | RDS DATAIN | I | RDS data input |
| 47 | DFP SW IN | 1 | Detects whether front panel is present or absent. |
| 48 ~ 50 | K1 ~ K3 | I | Diode matrix input for initial setting |
| 51 ~ 54 | K4 ∼ K7 | 0 | Diode matrix output for initial setting |
| 55 | AUX IN | 1 | AUX jack switch presence/absence detection input |
| 56 | AUX/MIC IN | I | AUX/MIC switch position detection input |
| 57 | CD MUTE | 1 | Muting signal input from CD changer |
| 58 | CE CONNECT | I | CD changer connection check |
| 59 | CE CLK OUT | 0 | Clock signal output to CD changer |
| 60 | LED CE OUT | 0 | Security LED flashing output (H = 120-130 ms, 1 cycle = 3 s) |
| 61 | EVR | 0 | Chip enable output to LC75854 |
| 62 | EVR CE | 0 | Chip enable output to electronic VR (LC7573E) |
| 63 | EVR DATA | 0 | Date output to electronic VR (LC7573E) |
| 64 | EVR CLK | 0 | Clock output to electronic VR (LC7573E) |
| 65 | CLK OUT | 0 | Clock output to LC75854 |
| 66 | DATA OUT | 0 | Data output to LC75854 |
| 67 | DATA IN | I | Data input from LC75854 |
| 68 | CD CLK IN | I | Clock input from CD changer |
| 69 | CD DATA OUT | 0 | Data output to CD changer |
| 70 | CD DATA IN | I | Data input from CD changer |
| 71 | CD DISP SEL | 0 | Determines the timing with which data is transmitted to the head unit. |
| 72 | CD ACC CONT | 0 | Transfers the information on head unit power on/off to the changer. |
| 73 | MUTE | 0 | Audio muting output |
| 74 | V REG | _ | CPU regulator output |
| 75 | GND | _ | Device ground |
| 76 | X OUT | 0 | Crystal oscillator output |
| 77 | X IN | 1 | Crystal oscillator input |
| 78 | CE | I | Chip enable input [ACC IN (car accessory power) on/off input] |
| 79 | VDD | _ | Device power supply |
| 80 | RESET | 0 | Reset input |

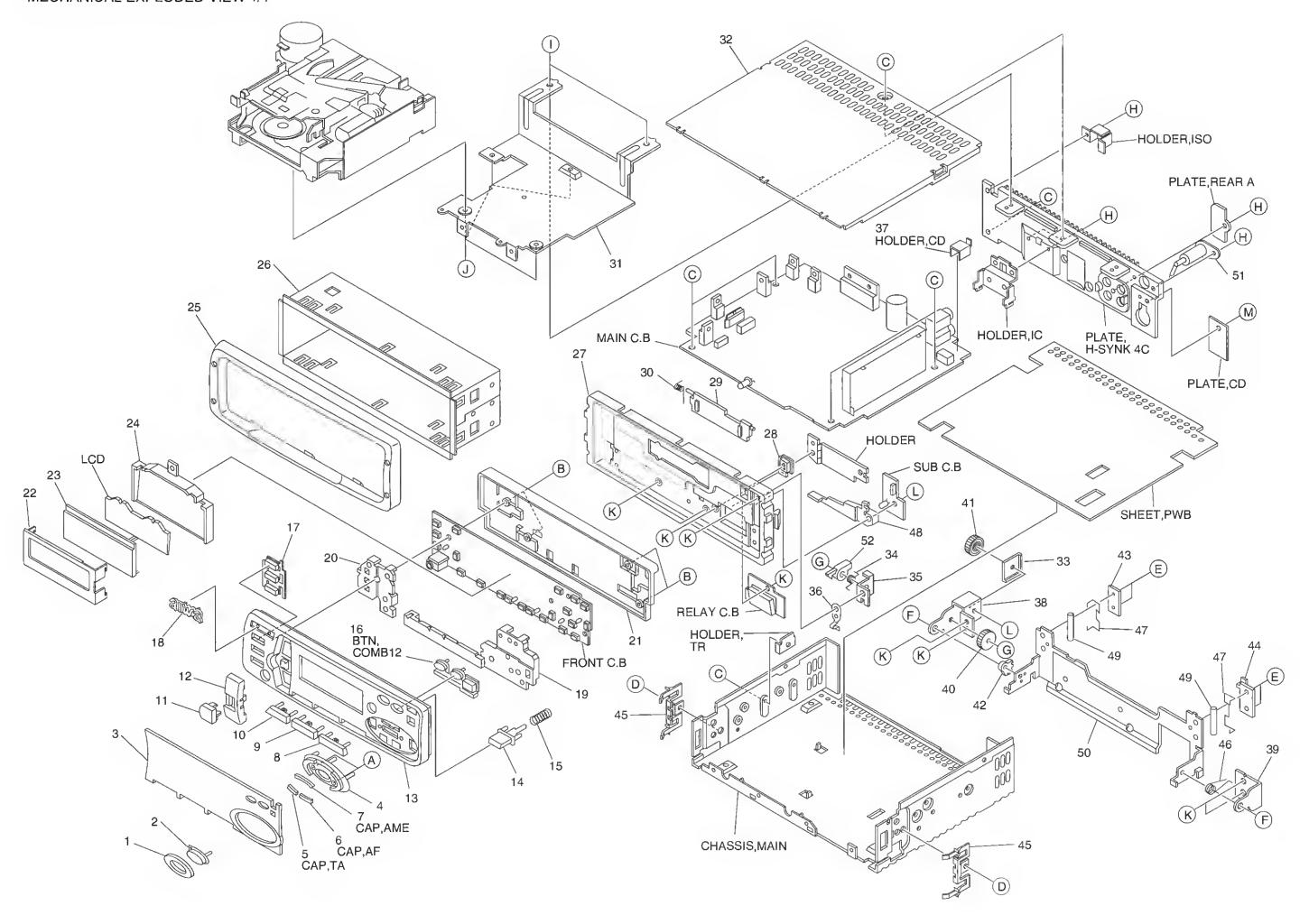
IC, LC75854W

| Pin No. | Pin Name | I/O | Description |
|---------|------------|------|---------------------------------|
| 1~32 | S1~S32 | 0 | Display segments |
| 33~39 | S33~S39 | _ | Unused |
| 40 | COM1 | О | Common 1 for display |
| 41 | COM2 | О | Common 2 for display |
| 42 | COM3 | 0 | Common 3 for display |
| 43 | COM4 | 0 | Common 4 for display |
| 44 | KS1 | **** | Unused |
| 45~49 | KS2~KS6 | 0 | Key scan outputs |
| 50~54 | KI1~K15 | I | Key scan inputs |
| 55 | TEST | | GND |
| 56 | VDD | _ | 9V |
| 57, 58 | VDD1, VDD2 | _ | VDD |
| 59 | VSS | _ | GND |
| 60 | OSC | I | Oscillator |
| 61 | DO | 0 | Communication; data output |
| 62 | CE | I | Communication; chip enable |
| 63 | CL | I/O | Communication; sync clock |
| 64 | DI | I | Communication; transferred data |

LCD DISPLAY



| 3 | _ | COM2 | _ | - |
|----|--------|------|-----|------|
| 4 | COM1 | - | | _ |
| 5 | C | A | В | Ð |
| 6 | 90 | 9e | 91 | 161 |
| 7 | 90 | 91 | 91 | 99 |
| 8 | 90 | 9к | 91 | 9h |
| 9 | (51 | 9c | 9ь | 94 |
| 10 | 80 | 8. | 81 | (4) |
| H | 8= | 81 | Bi | Bg |
| 12 | 80 | 8ĸ | 81 | Bh |
| 13 | (31 | 8c | Вь | Ba |
| 14 | 70 | 7. | 71 | (21 |
| 15 | 74 | 71 | 71 | 79 |
| 16 | 7 n | 7 ĸ | 71 | 7h |
| 17 | (11 | 7 c | 7b | 70 |
| 18 | 64 | 61 | 61 | AF |
| 19 | 6. | 61 | 61 | 69 |
| 20 | 6n | 6× | 61 | 6h |
| 21 | TP | 6c | 60 | 60 |
| 22 | 54 | 5« | 5 r | SI |
| 23 | 5+ | 51 | 51 | Sq |
| 24 | 5n | 5 k | 51 | 5h |
| 25 | TA | 5c | 56 | Se |
| 26 | 40 | 4 e | 41 | LO |
| 27 | 4= | 41 | 41 | 4 9 |
| 28 | 4 n | 4 K | 41 | 4h |
| 29 | H BASS | 4 c | 4 b | 40 |
| 30 | 3 a | 3∗ | 3 f | 52 |
| 31 | 3= | 31 | 31 | 39 |
| 32 | 3 n | 3k | 31 | . 3h |
| 33 | 5T | 3c | 3b | 30 |
| 34 | 2 a | 2 « | 21 | 53 |
| 35 | 2 « | 2 1 | 21 | 20 |
| 36 | 2 h | 2 ĸ | 2 i | 2h |
| 37 | Ð-B | 2 c | 2 b | 2 a |
| 3B | I d | 1 e | 1.1 | CRP |
| 39 | 1 = | 1 : | 1) | 1 g |
| 40 | I h | 1 k | 1 i | 1 h |
| 41 | MTL | 10 | 16 | 1 a |
| 42 | | N | C | |
| 43 | 54 | CĐ | - | |
| 44 | | N | С | |



MECHANICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO | PART NO. | KANRI DESCRIPTION NO. |
|----------|----------------------------------|----------------------------------------------------------------|
| 1 | S8-KTA-100-400 | RING, R-T/D-F <r71, x71yv="" x71yz,=""></r71,> |
| 1 | S8-KTA-100-300 | RING, R-T/D-F <r92, r72,="" x72yj="" x72yz,=""></r92,> |
| 2 | | |
| 3 | S8-KT1-030-200 S8-KT3-010-300 | |
| | 20-213-010-300 | WINDOW, DCD\A7212, A72107 |
| 3 | S8-KT3-010-500 | |
| 3 | S8-KT1-030-300 S8-KT1-030-100 | |
| 4 | S8-KTA-120-100 | |
| 5 | S8-KTA-130-200 | |
| 6 | S8-KTA-150-200 | CAP, LOONT <except r92,r72,r71=""></except> |
| 7 | S8-KTA-140-300 | |
| 8 | S8-KTA-090-100 | BTN, PRESET 5/6 |
| 9 | S8-KTA-080-100 | |
| 9 | S8-KTA-080-200 | BTN, PRESET 3/4 <except x71yv="" x71yz,=""></except> |
| 1.0 | 00 100 070 100 | |
| 10 | S8-KTA-070-100 | BTN, PRESET 1/2 <r72,r71,x71yz,x71yv></r72,r71,x71yz,x71yv> |
| 10 | S8-KTA-070-200 | |
| 11 | S8-KTA-060-100 | |
| 12 | S8-KTA-050-100 | |
| 13 | S8-KT1-010-200 | CAB, FRONT <r71, x71yv="" x71yz,=""></r71,> |
| 13 | S8-KT1-010-100 | CAB, FRONT <r92, r72,="" x72yj="" x72yz,=""></r92,> |
| 14 | S8-KT1-070-100 | |
| 15 | S7-KTE-520-000 | SPR, DETACH 3.65-9.5 |
| | S8-KT1-060-100 | |
| 16 | S8-KT1-060-200 | BTN, COMBI <r71></r71> |
| 16 | S8-KT1-060-400 | BTN, COMBI <x71yz, x71yv=""></x71yz,> |
| 17 | S8-KTA-040-100 | BTN, P/B/MUTE |
| 18 | | |
| 19 | S8-KT1-120-000 | |
| 20 | S8-KT1-110-000 | LENS, LEFT |
| 21 | S8-KT1-020-000 | CAB, REAR |
| 22 | S8-KT1-150-000 | |
| 23 | S8-KT1-710-000 | |
| 24 25 | S8-KT1-140-000 S8-KT1-090-010 | |
| 20 | | |
| 26 27 | S8-KT1-350-000 S8-KT1-080-000 | |
| 28 | | |
| 29 | S8-KTA-230-100 | |
| 30 | S7-KTE-670-000 | |
| 31 | S8-KT1-330-000 | HOLDER, DECK |
| 32 | S8-KT1-360-000 | COVER, TOP |
| 33 | S8-KT1-230-000 | HOLDER, GEAR |
| | S8-KT1-410-000 | |
| 35 | S8-KT1-310-000 | BASE, OPEN 0.8MM |
| 36 | | · |
| 37 | | |
| 38 | | |
| 40 | S8-KT1-300-000 S8-KT1-210-000 | |
| | | |
| 41 | S8-KT1-220-000 S8-KT1-200-000 | · · · · · · · · · · · · · · · · · · · |
| | S8-KT1-240-000 | |
| 44 | | |
| 45 | | |
| 46 | S8-KT1-480-000 | CDD COMIN O SMM |
| | S8-KT1-490-000 | |
| | S8-KT1-270-000 | |
| 49 | S8-KT1-190-000 | |
| 50 | S8-KT1-320-000 | HOLDER DFP |
| 51 | S1-180-400-010 | JACK, ANT |
| | S8-KT1-260-000 | PLATE, STOPPER PLATE |
| A | | |
| В | | |
| С | 87-067-684-010 | SCREW, 2.6-6 |
| D | | |
| E | | |
| F | S0-48K-T10-020 | SCREW, SPECIAL M2-2.3-1.8 |

| N TANK | |
|--------|--|
| | |
| | |

REF, NO

| Introductory Remarks | Model Name | | |
|-------------------------|---------------|--|--|
| <r92></r92> | CT-FR928M(YZ) | | |
| <r72></r72> | CT-FR728M(YZ) | | |
| <r71></r71> | CT-FR718(YZ) | | |
| <x71yz></x71yz> | CT-FX718(YZ) | | |
| <x71yv></x71yv> | CT-FX718(YVJ) | | |
| <x72yz></x72yz> | CT-FX728M(YZ) | | |
| <x72yj></x72yj> | CT-FX728M(YJ) | | |

KANRI NO.

PART NO.

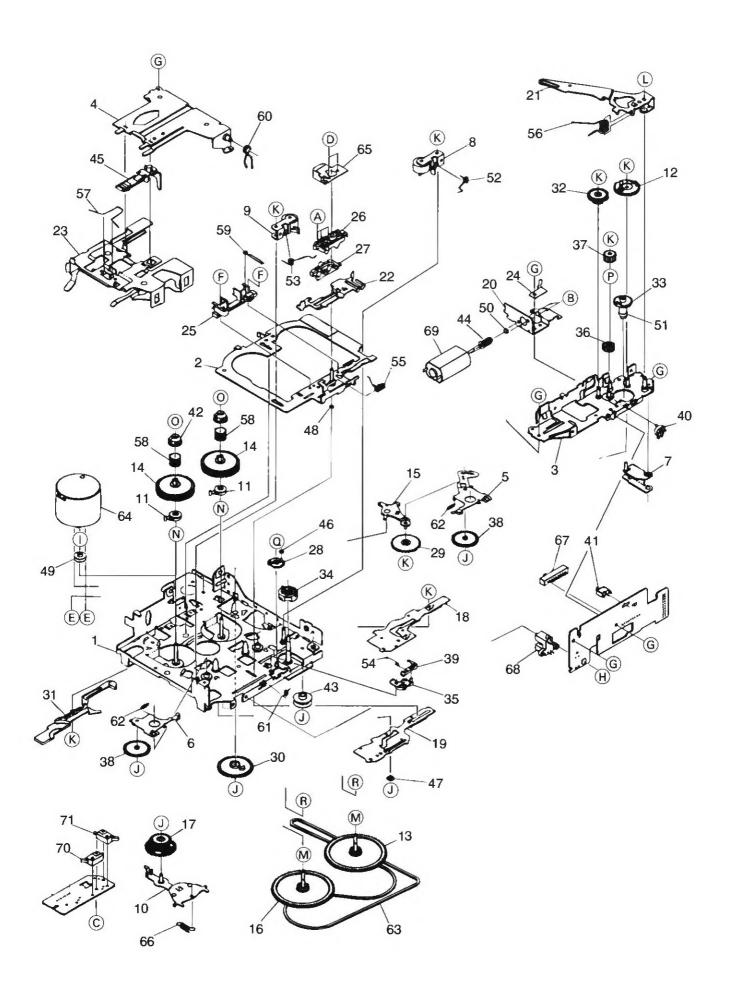
G S0-48K-T10-010 H 87-741-096-410

I 87-751-094-410 J S2-8X5-KT3-020 K S0-48K-T10-030 L S0-48K-T10-040 M S0-051-160-000 DESCRIPTION

SPECIAL SCREW M2-4.2-2.0 SCREW, 3-10

SCREW, TAPPING 3-6 B/T/B SPECIAL SCREW FH M2.6-4 SCREW, SPECIAL (SWCH) SCREW, SPECIAL M5-10

SOCKET, DIN



TAPE MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO | PART NO. | KANRI NO. | DESCRIPTION DESCRIPTION | REF. NO | | KANRI NO. | DESCRIPTION |
|-----------------------|------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1 2 3 4 5 | S1-052-260- S1-052-260- S1-052-260- SX-052-210- SX-052-210- | _ | CHASSIS ASSY HADE PLATE ASSY SUB CHASSIS ASSY HOLDER ARM ASSY T.U ARM(F)ASSY | | S1-052-270- S1-052-270- S1-052-250- S1-005-250- S1-010-150- | ·110 ·100 ·030 ·230 ·060 | SW, LEAF (MLS-4) SW, LEAF (MSL-2) SCREW, AZIMUTH SCREW, MOTOR M2-2.5 SCREW, PLAIN M1.7-7 |
| 7 8 9 | SX-052-210- SX-052-210- SX-052-210- SX-052-210- SX-052-210- | -100 -190 -200 | T.U ARM(R)ASSY SET ARM ASSY PINCH ARM(F)ASSY PINCH ARM(R)ASSY F.R ARM ASSY | D E F G H | S1-052-250- S2-103-200- S1-052-250- S2-133-200- S2-138-200- | -050 -22C -060 -30C -50C | SCREW, SPECIAL (2) SCREW, PLAIN M2-2.2 SCREW, SPECIAL (3) SCREW, PLAIN M2-3 PLAIN B-TYPE M2-5 |
| 12 13 14 | SX-052-220- SX-052-220- SX-052-220- SX-052-220- SX-052-220- | -100 -160 -180 | DETECT ARM ASSY LOAD GEAR ASSY FLYWHEEL(F)ASSY REEL TABLE ASSY REDUCTION GEAR ARM ASSY | I J K L | S1-001-250- S2-181-200- S2-181-600- S2-181-600- S2-182-100- | ·170 ·30D ·32D ·325 ·32D | WASHER MYLAR PSW-S 1.2-3.0-0.25 PSW-S 1.6-3.2-0.25 PSW-S 1.6-3.2-0.5 PSW,2.1-3.2-0.25 |
| 17 18 19 | SX-052-220- SX-005-220- S1-052-210- S1-052-210- S1-052-210- | -010 -080 -090 | FLYWHEEL(R)ASSY FR GEAR ASSY PLATE,DIR PLATE FF/REW MOTOR BKT | N O P Q R | S2-182-100- S1-005-350- S2-182-100- S2-171-150- S2-171-160- | 40D 050 403 401 329 | PSW, 2.1-4.0-0.25 LMW-S, 1.5-3.2-0.25 PSW, 2.1-4.0-0.3 E-RING, 1.5 E-RING 1.6-3.2-0.3 |
| 22 23 24 | S1-052-210- S1-052-210- S1-052-210- S0-052-210- S1-052-220- | -140 -170 -260 | LOAD ARM SHIFT CAM LINK HOLDER CASS HOLDER WORM GUIDE TAPE | | | | |
| 27 28 29 | S1-052-220- S1-052-220- S1-052-220- S1-052-220- S1-052-220- | -030 -040 -050 | HEAD BKT CAM SHIFT HEAD GEAR SELECT GEAR REDUCTION GEAR DETECT | | | | |
| 32 33 34 | \$1-052-220- \$1-005-220- \$1-052-220- \$1-052-220- \$1-052-220- | -120 -110 -120 | DETECTOR GEAR WORM GEAR MODE GEAR MODE (2) GEAR LATCH | | | | |
| 37 38 39 | \$1-052-220- \$0-052-220- \$1-052-220- \$1-052-220- \$1-052-220- | -150 -170 -190 | GEAR IDLE(1) GEAR IDLE(2) GEAR T.U RACHET SW, ACTUATER | | | | |
| 42 43 44 | S1-005-670- S1-005-220- S1-005-220- S1-005-220- S1-005-220- | -040 -060 -100 | SW,SW-112 RELL DRIVER IDLE PULLEY WORM CATCH(K) | | | | |
| 47 48 | S1-052-230- S1-005-230- S1-005-230- S1-005-230- S0-052-230- | -280 -290 -380 | SELECT GEAR COLLAR HEAD BASE ROLLER(L) HEAD BASE ROLLER(S) MOTOR PULLEY(DL) WORM COLLAR | | | | |
| 53 54 | S0-052-230- S1-052-240- S1-052-240- S1-052-240- S1-052-240- | ·010 ·020 ·030 | MODE GEAR COLLAR PINCH ARM(F)SPG PINCH ARM(R)SPG GEAR LATCH SPG HEAD SPG | | | | |
| 57 58 | S1-052-240- S1-052-240- S1-052-240- S1-052-240- S1-052-240- | -080 -100 -110 | LOAD ARM SPG CATCH SPG REEL DRIVER SPG DASH SPG HOLDER ARM SPG | | | | |
| 62 63 64 | \$1-052-240- \$1-052-240- \$1-005-250- \$1-003-670- \$1-052-270- | 170 -220 -570 | HOLD SPG TU ARM SPG BELT MOTOR HEAD 2CH | | | | |
| 67 68 | S1-052-240- S1-003-670- SX-005-270- S1-052-270- | 071 400 | FR ARM SPG SW,SLIDE(SLD-32-710S) PHOTO COUPLER ASSY MOTOR,SUB | | | | |

REFERENCE NAME LIST ELECTRICAL SECTION

DESCRIPTION REFERENCE NAME

ANT ANTENNAS
C-CHIP
C-CAP CAP, CHIP
C-CAP TN CAP, CHIP TANTALUM
C-COIL DIODE, CHIP
C-DIODE DIODE, CHIP
C-FET FET, CHIP
C-FOTR FILTER, CHIP
C-JACK JACK, CHIP
C-RES RES, CHIP
C-SFR SFR, CHIP

C-SW SWITCH, CHIP

C-TR TRANSISTOR, CHIP

C-VR VOLUME, CHIP

C-ZENER ZENER, CHIP

CAP, CER CAP, CERA-SOL

CAP, ELECT

SLIDE SWITCH, CHIP

C-SLIDE SW

CAP, M/F
CAP, TC
CAP, CERA-SOL
CAP, TC-U
CAP, CERA-SOL SS
CAP, TN
CAP, TANTALUM
FILTER, CERAMIC

CF FILTER, CERAMIC
DL DELAY LINE
E/CAP CAP, ELECT
FILT FILTER
FLTR FILTER

FUSE RES RES, FUSE
MOT MOTOR
P-DIODE PHOTO DIODE
P-SNSR PHOTO SENSER
P-TR PHOTO TRANSISTOR

POLY VARI
PPCAP
PT
PT
PTR, RES
PTR, MELF

RES NF RES, NON-FLAMMABLE RESO RESONATOR SHIELD SOL SOLENOID SPEAKER

SW, LVR SWITCH, LEVER SW, RTRY SWITCH, ROTARY SW, SL SWITCH, SLIDE TC CAP CAP, CERA-SOL THMS THERMISTOR

TR TRANSISTOR
TRIMMER CAP, TRIMMER
TUN-CAP VARIABLE CAPACITOR
VIB, CER RESONATOR, CERAMIC
VIB, XTAL RESONATOR, CRYSTAL

VR VOLUME ZENER DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION REFERENCE NAME ADHESHIVE SHEET ADHESHIVE AZIMUTH BAR-ANT **BAR-ANTENNA** BAT BATTERY BATT BATTERY BRG BEARING BTN BUTTON CAB CASS CASSETTE CHAS CHASSIS CLR COLLAR CONT CONTROL CRSR CURSOR CU CUSHION **CUSH** CUSHION DIR DIRECTION DUBB DUBBING FRONT LOADING FLY-WHL **FLYWHEEL** FR FRONT **FUNCTION**

FUN FUNCTION
G-CU G-CUSHION
HDL HANDOL
HIMERON CLOTH
HINGE, BAT HINGE, BATTERY

HLDR HOLDER
HT-SINK HEAT SINK
B INSTRUCTION BOOKLET
IDLE IDLER
IND, L-R INDICATOR, L-R

LVR
P-SP
PANEL, CONT
PANEL, FR

LEVER
P-SPRING
PANEL, CONTROL
PANEL, FRONT

PRGM
PULLY, LOAD MO
PULLY, LOAD MOTOR
RIBBON
SSEG
SPECIAL
SEGMENT

 SH
 SHEET

 SHLD-SH
 SHIELD-SHEET

 SL
 SLIDE

 SP
 SPRING

 SP-SCREW
 SPECIAL-SCREW

SPACER, BAT
SPR
SPR
SPR-P
SPRING
SPR-PC-PUSH
T-SP

TERM TERMINAL
TRIG TRIGGER
TUN TUNING
VOL VOLUME
W WASHER

WHL WHEEL WORM-WHEEL

| サービス打 | 支術ニュース |
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| 番号 | 連絡内容 |
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アイワ株式会社 AIWA CO.,LTD.

737004

Tokyo Japan